Applicant : David Farrar, et al. Attorney's Docket No.: 00167-0482001 / PT-2683-US-

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for tissue repair or replacement, comprising first and second components having different relative rates of in vivo degradation, the first component comprising a unitary and continuous ceramic structure having interconnected prossity throughout and the second component comprising a polymer infiltrated in the ceramic structure, and the first component having a higher rate of in vivo degradation than the second component the first and second components being arranged relative to each other with the first emponent forming a discrete structure with pores and the second component infiltrating the pores so that, after implantation of the device, the first component degrades in vivo leaving a scaffold formed of the second component, the scaffold having pores into which tissue can infiltrate, wherein the device, when initially implanted does not have sufficient poresity to support tissue increwth.

2-7. (Cancelled)

(Original) The device of claim 1 wherein the device is substantially non-porous prior to implantation into a patient.

(Original) The device of claim 1 wherein there is at least an 8 week difference between the degradation rates of the components.

10. (Original) The device of claim 9 wherein the degradation rates differ by about 12 months to 2 years.

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11. (Original) The device of claim 1 wherein at least one of the components includes a therapeutic additive.

12-36. (Cancelled)

37. (Currently Amended) A method of tissue repair or replacement, comprising implanting in a patient a device comprising first and second components having different relative rates of in vivo degradation, the first component comprising a unitary and continuous ceramic structure having interconnected porosity throughout and the second component comprising a polymer infiltrated in the ceramic structure, and the first component having a higher rate of in vivo degradation than the second component, the first and second components being arranged relative to each other with the first component forming a discrete structure with pores and the second component infiltrating the pores so that, after implantation of the device, the first component degrades in vivo leaving a scaffold formed of the second component, the scaffold having pores into which tissue can infiltrate, wherein the device, when initially implanted, does not have sufficient porosity to support tissue ingrowth.

38-48. (Cancelled)

49-50. (Cancelled)

- 51. (Previously presented) The device of claim 1 wherein the device, when initially implanted, is in the form of a solid preformed structure.
- 52. (Currently Amended) The device of claim 1 wherein the polymer fills the interconnecting pores of the discrete ceramic structure.
 - 53. (Previously presented) The device of claim 51 wherein the polymer is resorbable.

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54. (Currently Amended) A device for tissue repair or replacement, comprising first and second components having different relative rates of in vivo degradation, the first component comprising a <u>unitary and continuous</u> ceramic structure <u>having interconnected procestry throughout</u> and the second component comprising a polymer <u>infilitated in the ceramic structure</u> vinit there in the second component comprising a polymer infilitated in the ceramic structure with the first component forming a discrete structure with pores and the second component infilitrating the pores, and wherein the first component has a higher rate of in vivo degradation than the second component, the first and second components being arranged relative to each other so that, after implantation of the device, the first component degrades in vivo leaving a scaffold formed of the second component, the scaffold having pores into which tissue can infilitate, wherein the device, when initially implanted, is substantially non-porous.

 (Currently Amended) The device of claim 54 wherein the polymer fills interconnecting pores of the discrete ceramic structure.